

**SM3H 6.6 odd answers**

1.  $x = \frac{\pi}{2} + \pi k$

3.  $x = \frac{3\pi}{2} + 2\pi k$

5.  $x = \frac{\pi}{3} + 2\pi k, x = \frac{5\pi}{3} + 2\pi k$

7.  $x = \frac{\pi}{6} + \pi k$

9.  $x = \frac{5\pi}{4} + 2\pi k, x = \frac{7\pi}{4} + 2\pi k$

11.  $\alpha = 45^\circ + 360^\circ k, \alpha = 315^\circ + 360^\circ k$

13.  $\alpha = 135^\circ + 180^\circ k$

15.  $\alpha = 29.2^\circ, \alpha = 330.8^\circ$

17.  $\alpha = 79.5^\circ, \alpha = 259.5^\circ$

19.  $\alpha = 0.39, \alpha = 3.53$

21.  $\alpha \approx 56.40^\circ$

23.  $m = \sin^{-1}\left(\frac{t-2}{-6}\right) \text{ or } m = \sin^{-1}\left(\frac{2-t}{6}\right)$

25.  $\alpha \approx 23.58^\circ + 360^\circ k, \alpha \approx 156.42^\circ + 360^\circ k$

27.  $3\pi \text{ in}^2$